

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	38	(US-20050200837-\$ or US-20020125374-\$ or US-20060058946-\$ or US-20050202886-\$ or US-20030204962-\$ or US-20060044275-\$ or US-20040161141-\$).did. or (US-5313230-\$ or US-6732440-\$ or US-4645080-\$ or US-6498643-\$ or US-6289263-\$ or US-5111926-\$ or US-6265234-\$ or US-5190137-\$ or US-4831924-\$ or US-5405411-\$ or US-5416392-\$ or US-5422988-\$ or US-5517430-\$ or US-5632205-\$ or US-5855270-\$ or US-5319577-\$ or US-7108263-\$ or US-4575695-\$ or US-3974577-\$ or US-3937078-\$ or US-4249738-\$).did. or (WO-200009271-\$ or EP-454267-\$ or US-6630998-\$ or GB-2298155-\$ or US-20050202886-\$ or RO-84743-\$ or SU-534341-\$ or SU-294391-\$ or US-5319577-\$ or DE-3519318-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2006/10/24 10:49
S2	27846	orient\$3 and sphere	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:52
S3	74	orient\$3 adj sphere	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:53
S4	189	orient\$3 adj spher\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:53

## EAST Search History

S5	71576	orient\$3 and spher\$4	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:53
S6	481	orient\$5 adj spher\$4	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:55
S7	107030	orient\$5 and spher\$4	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:54
S10	12	"6630998"	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:54
S12	12	"5611723"	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:54
S14	2	"20050202886"	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:16
S15	189	orient\$3 near sphere	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:55

## EAST Search History

S16	732	orient\$5 near spher\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:56
S17	9300	orient\$5 with spher\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:56
S18	23443	orient\$5 same spher\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:56
S19	0	(orient\$5 same spher\$4) near automat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:59
S20	578	(orient\$5 same spher\$4) same automat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 10:59
S21	14	(orient\$5 near spher\$4) same automat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:02
S23	2	("3310152").URPN.	USPAT	OR	ON	2006/10/24 11:00
S24	2	("3310152").URPN.	USPAT	OR	ON	2006/10/24 11:01
S26	23	(orient\$5 near spher\$4) same automat\$7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:04

## EAST Search History

S27	66214	orient\$5 same automat\$7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:05
S28	26504	orient\$5 with automat\$7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:05
S29	3868	orient\$5 near automat\$7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:05
S30	1085	orient\$5 adj automat\$7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:05
S31	32	(orient\$5 adj automat\$7) and sphere\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:07
S32	161	(orient\$5 near automat\$7) and sphere\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:07
S33	129	(orient\$5 near automat\$7) and sphere\$4 not S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 11:08

## EAST Search History

S35	14	US-6630998-\$ DID. OR US-6608687-\$ DID. OR US-6462303-\$ DID. OR US-6450082-\$ DID. OR US-6462812-\$ DID. OR US-6031933-\$ DID. OR US-5903341-\$ DID. OR US-5777244-\$ DID. OR US-5703687-\$ DID. OR US-5611723-\$ DID. OR US-5604550-\$ DID. OR US-5223679-\$ DID. OR US-4445628-\$ DID. OR US-4240620-\$ DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/24 11:42
S36	1	1997-052113.NRAN.	DERWENT	OR	ON	2006/10/24 13:10
S37	3114	carlson.in.	DERWENT	OR	ON	2006/10/24 13:10
S38	54	carlson-ralph.in. or carlson-r.in.	DERWENT	OR	ON	2006/10/24 13:12
S39	12	S37 and spher\$4	DERWENT	OR	ON	2006/10/24 13:13
S40	98	S37 and orient\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:32
S41	2944394	automat\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:33
S42	201844	sphere\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:33
S43	2921066	(orient\$5 or align\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:34

## EAST Search History

S44	703925	S41 and S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:34
S45	20326	S41 and S42 and S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:35
S46	4381	S41 and (S42 same S43)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:35
S47	1687	S41 and (S42 with S43)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:36
S48	179	S41 and (S42 near S43)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:36
S49	96	S41 and (S42 adj S43)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 13:36
S50	2570	acushnet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 14:32

## EAST Search History

S51	23	acushnet and carlson	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 14:32
S52	10	US-6798925-\$.DID. OR US-6798515-\$.DID. OR US-6768509-\$.DID. OR US-6594623-\$.DID. OR US-6061126-\$.DID. OR US-5966213-\$.DID. OR US-5467192-\$.DID. OR US-4555635-\$.DID. OR US-4246606-\$.DID. OR US-6262803-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/24 14:35
S53	4	US-5611723-\$.DID. OR US-5632205-\$.DID. OR US-6031933-\$.DID. OR US-6630998-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/24 16:05
S54	1	1997-052113.NRAN.	DERWENT	OR	ON	2006/10/24 16:30
S55	16	"5703687"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:04
S56	935	356/614	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:07
S57	413	356/614 and orient\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:07
S58	107	356/614 and orient\$6 and sphер\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 13:07

## EAST Search History

S59	2	"6839138"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/25 14:29
S60	0	"700.CLAS" and orientation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:41
S61	0	"700.CLAS" and orient	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:41
S62	0	"700.CLAS"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:41
S63	4472	"700".CLAS. and orientation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:41
S64	296	"700".CLAS. and orientation and sphere	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:42
S65	79	"700".CLAS. and (orientation same sphere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:43

## EAST Search History

S66	16	("5395174"   "5580318"   "5632205"   "5703687"   "5755335"   "5777244"   "5848189"   "5859923"   "6031933"   "6061086"   "6319563").PN. OR ("6462812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/02 11:42
S67	19	("20030095178"   "4240620"   "4445628"   "5223679"   "5604550"   "5611723"   "5703687"   "5734337"   "5777244"   "5903341"   "5912467"   "6031933"   "6450082"   "6462303"   "6462812"   "6499333"   "6608687"   "6630998"   "6768509").PN. OR ("7055363").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/02 11:42
S68	18	("1339569"   "1527691"   "1921571"   "1999647"   "20020097280"   "20020134257"   "5123345"   "5632205"   "5832819"   "6245386"   "6295737"   "6418843"   "6462812"   "6538767").PN. OR ("6923115").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/02 12:05
S69	23	("4745857"   "4796201"   "4836119"   "4844947"   "4871252"   "4974511"   "5012116"   "5227985"   "5319577"   "5345309"   "5389476"   "5479008"   "5561756").PN. OR ("5632205").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/02 12:32
S70	23	("4745857"   "4796201"   "4836119"   "4844947"   "4871252"   "4974511"   "5012116"   "5227985"   "5319577"   "5345309"   "5389476"   "5479008"   "5561756").PN. OR ("5632205").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/02 12:33
S72	1283	(mirrors with camera) and (replace or reduce or substitute) and (multiple with single)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/06 13:32
S73	84	((mirrors with camera) same (multiple with single)) and (replace or reduce or substitute)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/06 13:33

## EAST Search History

S74	71	("3246297"   "3500063"   "3749923"   "3791741"   "3891324"   "3939984"   "3956629"   "3983403"   "3987902"   "4002823"   "4011155"   "4053056"   "4188544"   "4245243"   "4268168"   "4277176"   "4367045"   "4367405"   "4454542"   "4500203"   "4509075"   "4518862"   "4546384"   "4630225"   "4639592"   "4734766"   "4759074").PN. OR ("4972494").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/06 13:41
S75	29430	orient\$5 and compar\$4 and imag\$3 and spher\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 08:05
S77	1381	orient\$5 and spher\$4 and virtual and (compar\$4 with imag\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 08:12
S79	11	orient\$5 same spher\$4 same (virtual or stored) same (compar\$4 with imag\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 08:14
S80	81	orient\$5 same spher\$4 same (compar\$4 with imag\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 08:30
S81	104	(orient\$5 and spher\$4) same (compar\$4 with imag\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 08:31
S82	0	("2005/0200837").URPN.	USPAT	OR	ON	2006/11/08 08:32

## EAST Search History

S86	385	356/237.1.ccls. and (imag\$3 with compar\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 12:24
S87	2466	356/237.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 11:08
S88	97	(conver\$4 same (imag\$3 with compar\$4)) and sphere and virtual	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 11:13
S90	19867	"382".clas. and (imag\$3 with compar\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 12:25
S92	640	"382".clas. and (imag\$3 with compar\$4) and spher\$4 and orient\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 12:25
S93	2090461	Ball Grid Arrays	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 10:12
S94	24543	Ball adj grid adj Array	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 10:12

## EAST Search History

S95	210	((Ball adj grid adj Array) or BGA) and "382".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 10:13
S96	0	"09633756".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 10:45
S97	2	"09633756"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 11:35
S98	102	S95 and orient\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 11:43
S99	309	(reference or template or compare\$4) with image same orient\$5 same (spher\$4 or ball or golfball)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 12:15
S100	119	compar\$4 same (virtual or digital or digitized or electronic) same image same spher\$4 same reference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 12:22
S101	3	("6630998").URPN.	USPAT	OR	ON	2006/11/09 14:08

## EAST Search History

S10 2	57	( "2278800"   "2701055"   "2778497"   "3565248"   "3675015"   "3930063"   "3940952"   "4110047"   "4259013"   "4289032"   "4358202"   "4398825"   "4469442"   "4469713"   "4641966"   "4726898"   "4814198"   "4969361"   "5118194"   "5166985"   "5278635"   "5286532"   "5395174"   "5443642"   "5457326"   "5542680"   "5580318"   "5602646"   "5632205"   "5651741"   "5658619"   "5667840"   "5703687"   "5732147"   "5755335"   "5777244"   "5848189"   "5859923"   "5901854"   "5943125"   "5960098"   "5966213"   "5985370"   "6031933"   "6061086"   "6201892"   "6226416"   "6248804"   "6271520"   "6319563"   "6462812").PN. OR ("6630998"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/09 14:08
S10 3	4	("6226416").URPN.	USPAT	OR	ON	2006/11/09 14:13
S10 4	13	( "4745857"   "4796201"   "4836119"   "4844947"   "4871252"   "4974511"   "5012116"   "5227985"   "5319577"   "5345309"   "5389476"   "5479008"   "5561756").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/09 14:19
S10 5	57	( "2278800"   "2701055"   "2778497"   "3565248"   "3675015"   "3930063"   "3940952"   "4110047"   "4259013"   "4289032"   "4358202"   "4398825"   "4469442"   "4469713"   "4641966"   "4726898"   "4814198"   "4969361"   "5118194"   "5166985"   "5278635"   "5286532"   "5395174"   "5443642"   "5457326"   "5542680"   "5580318"   "5602646"   "5632205"   "5651741"   "5658619"   "5667840"   "5703687"   "5732147"   "5755335"   "5777244"   "5848189"   "5859923"   "5901854"   "5943125"   "5960098"   "5966213"   "5985370"   "6031933"   "6061086"   "6201892"   "6226416"   "6248804"   "6271520"   "6319563"   "6462812").PN. OR ("6630998"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 12:52